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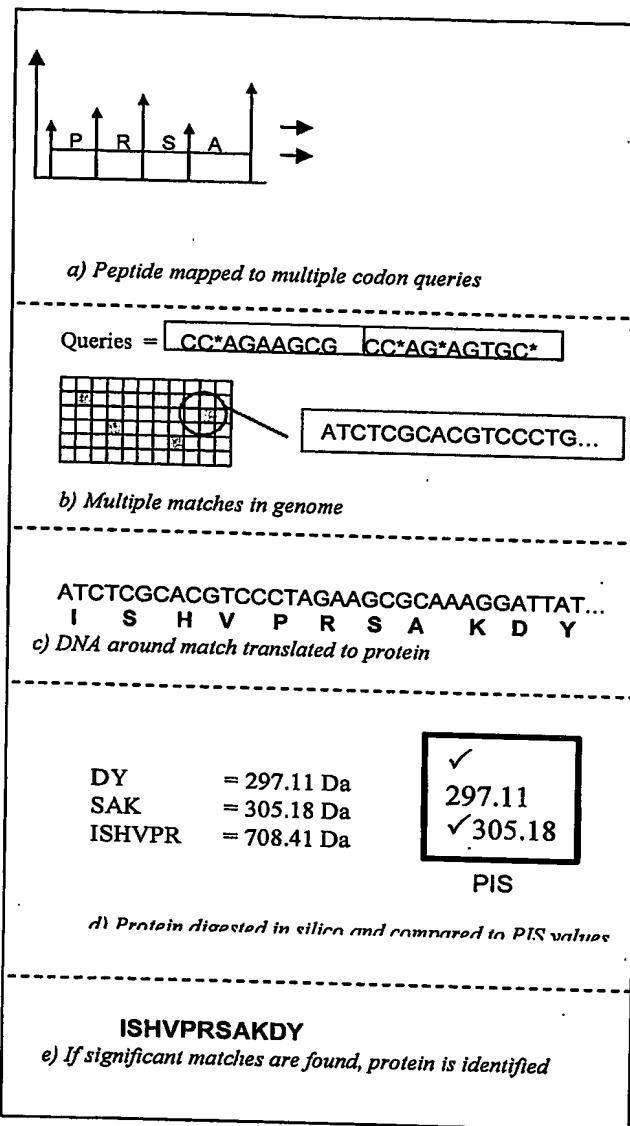
Figure 1

MHTHGCKYTILYRFHNDC
Original protein in sample

MHTHGCK YTILYR FHNDC
After digestion – 3 smaller tryptic fragments

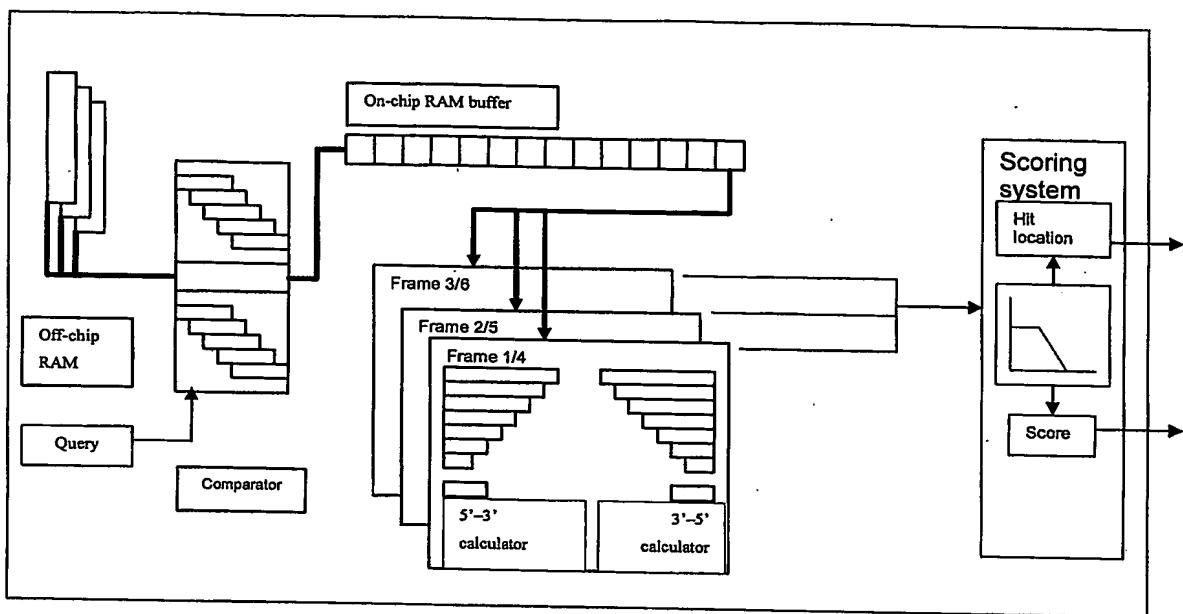
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Figure 2



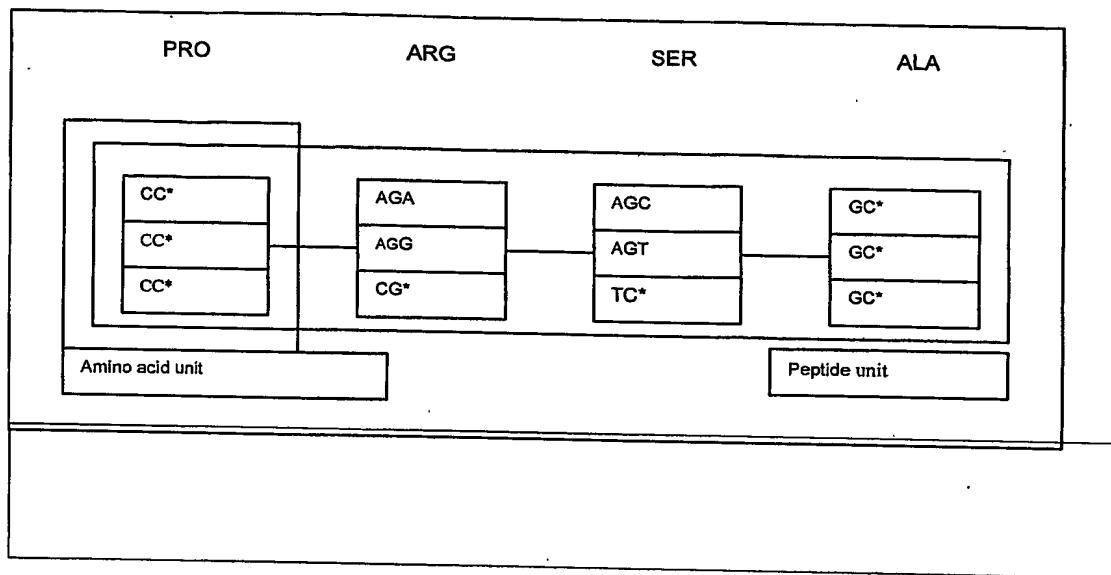
3/38

Figure 3



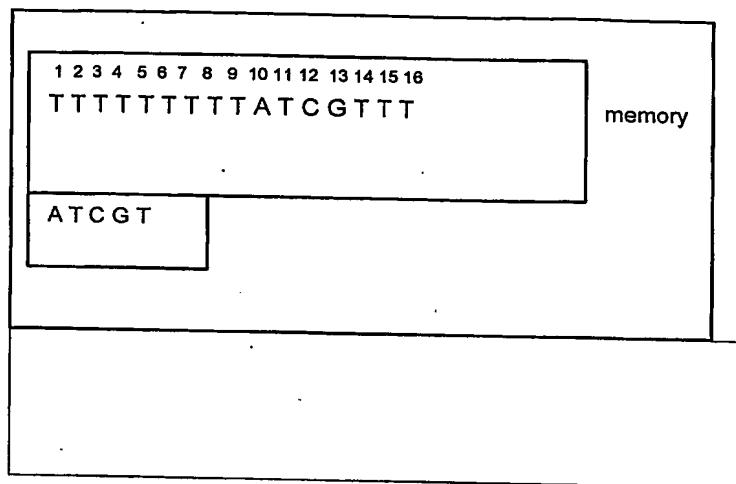
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Figure 4



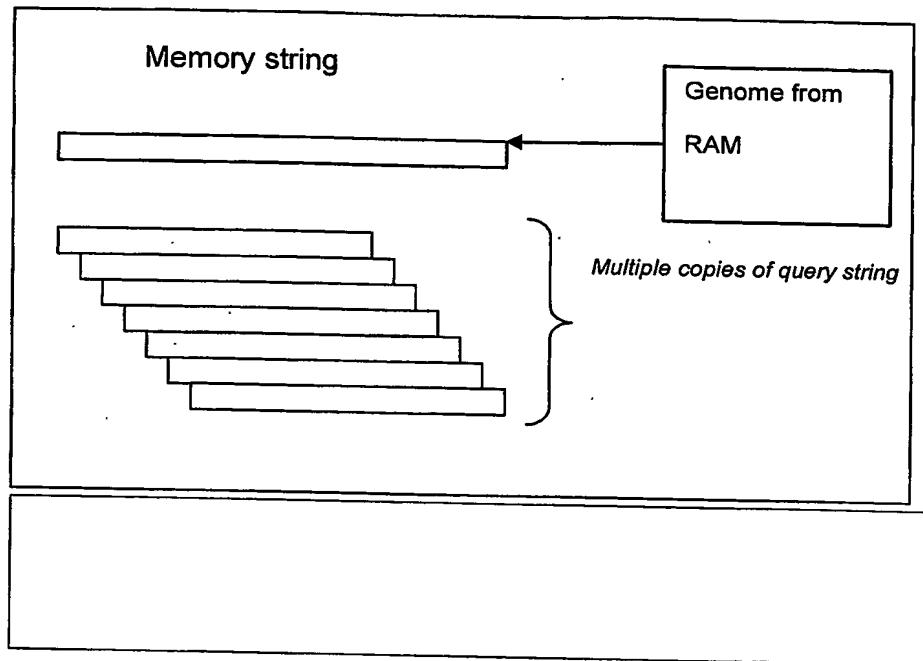
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Figure 5



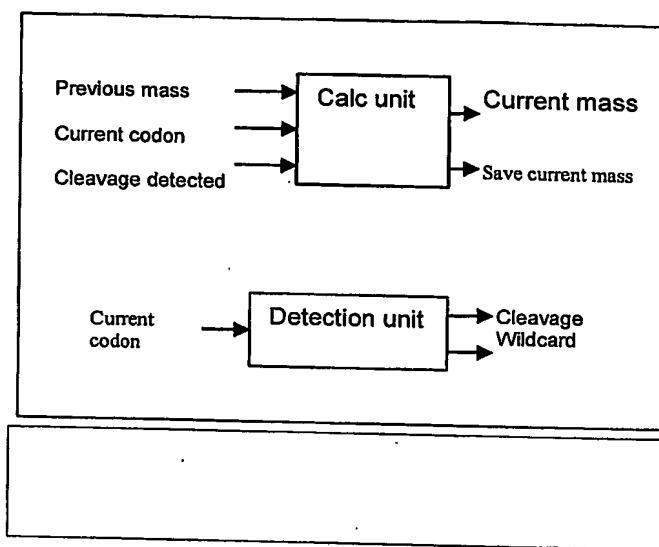
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Figure 6



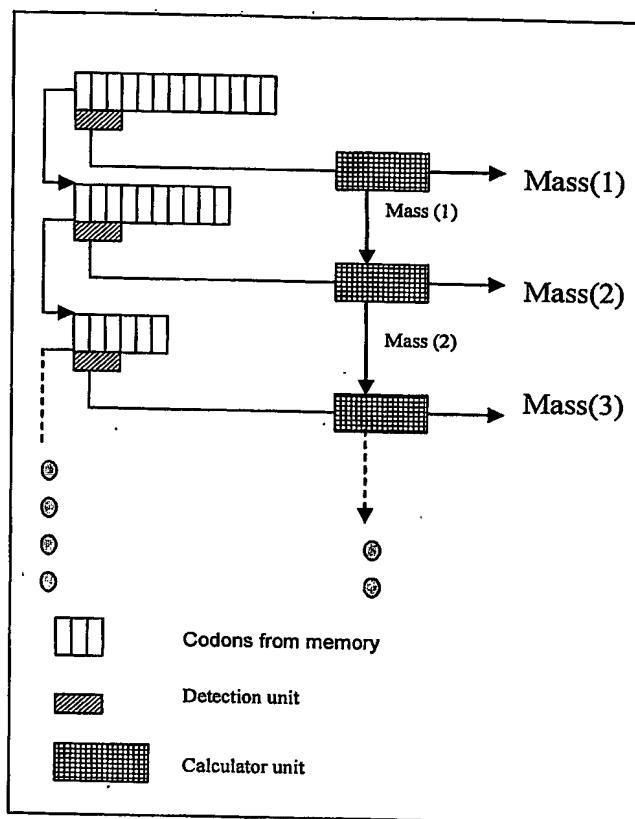
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Figure 7



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Figure 8



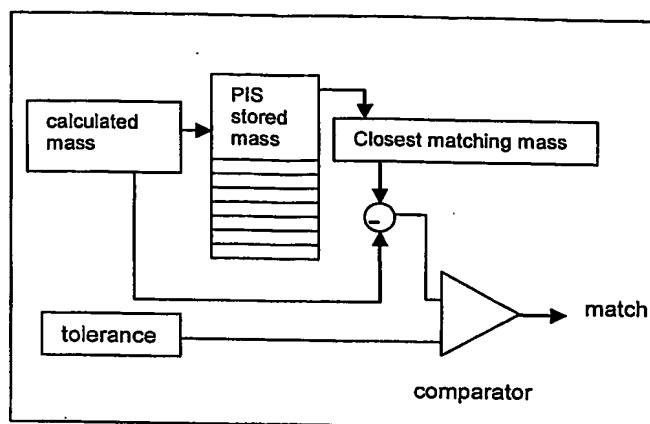
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Figure 9

ATG ACT CCA GAC	Original strand
GTC TGG AGT CAT	Complementary strand
Original	Complement
ATG	CAT
ACT	AGT
CCA	TGG
GAC	GTC

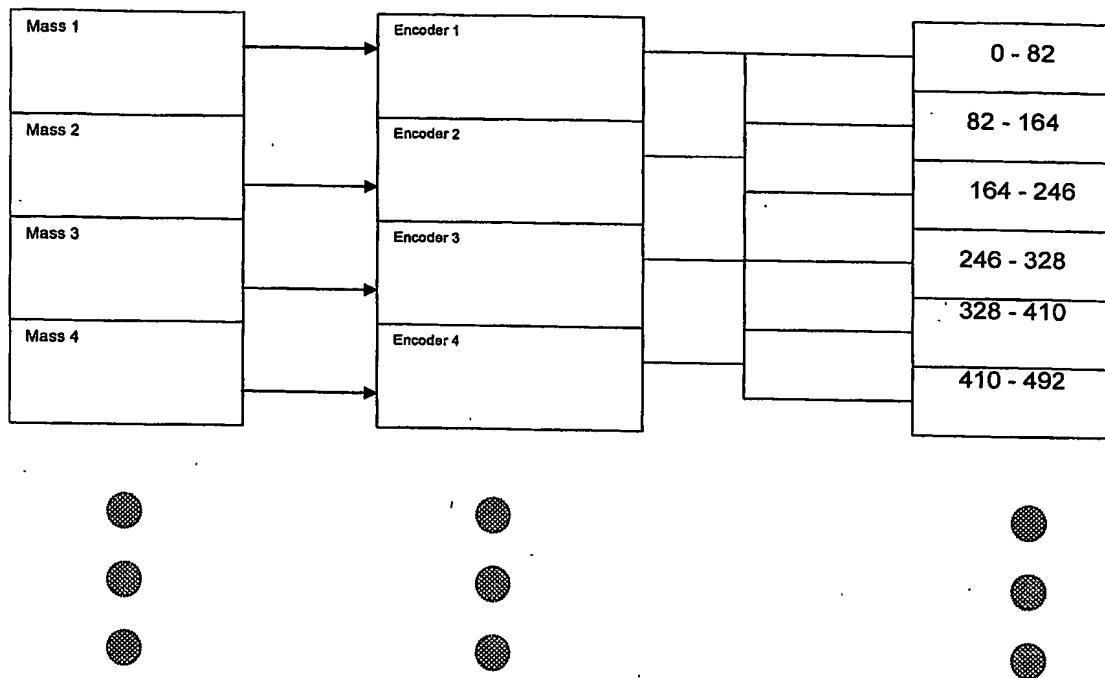
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Figure 10



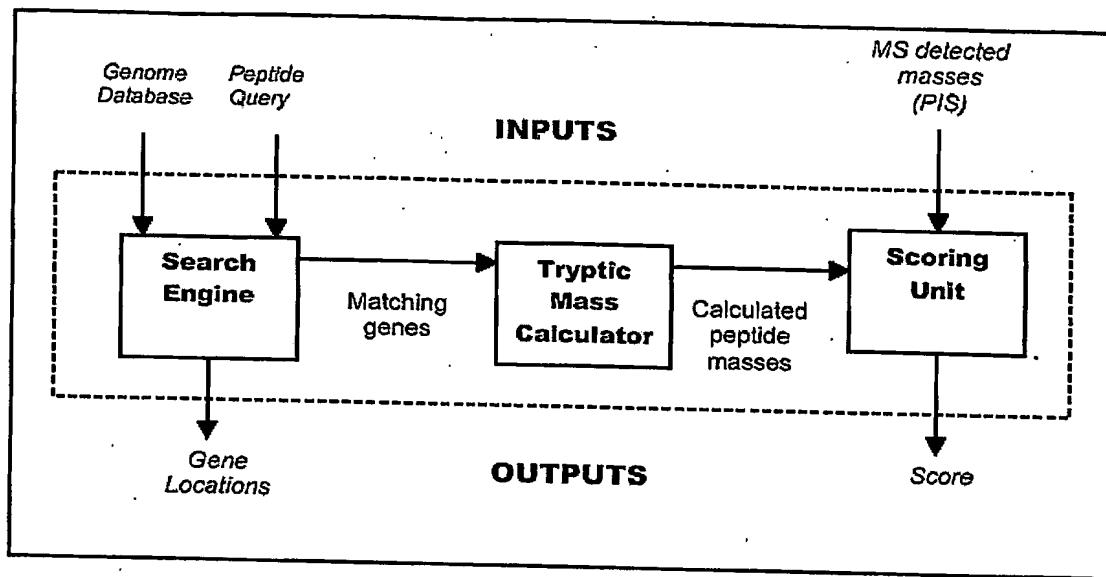
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Figure 11



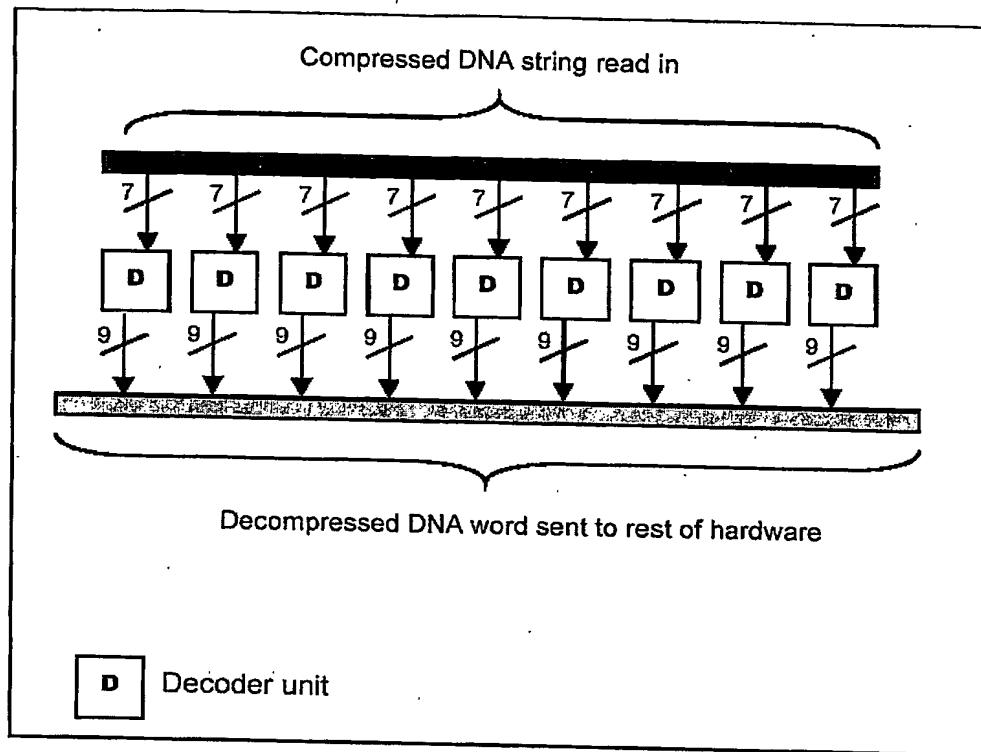
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Figure 12



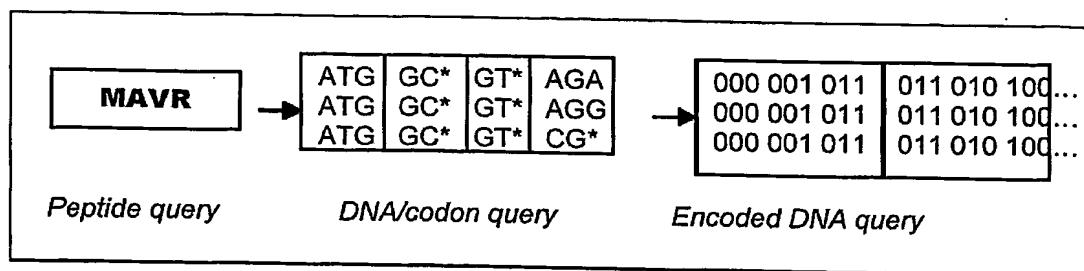
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Figure 13



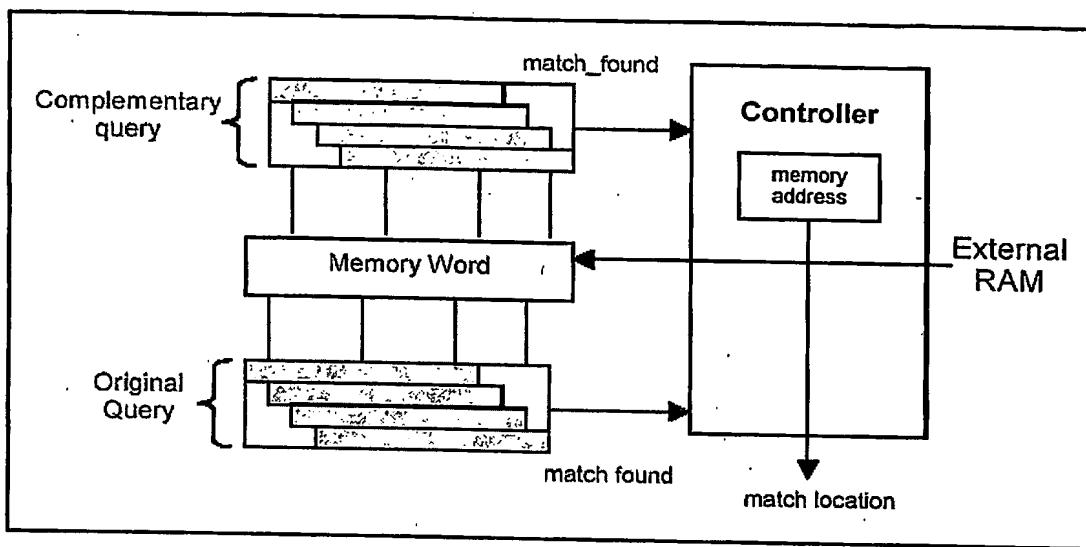
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Figure 14



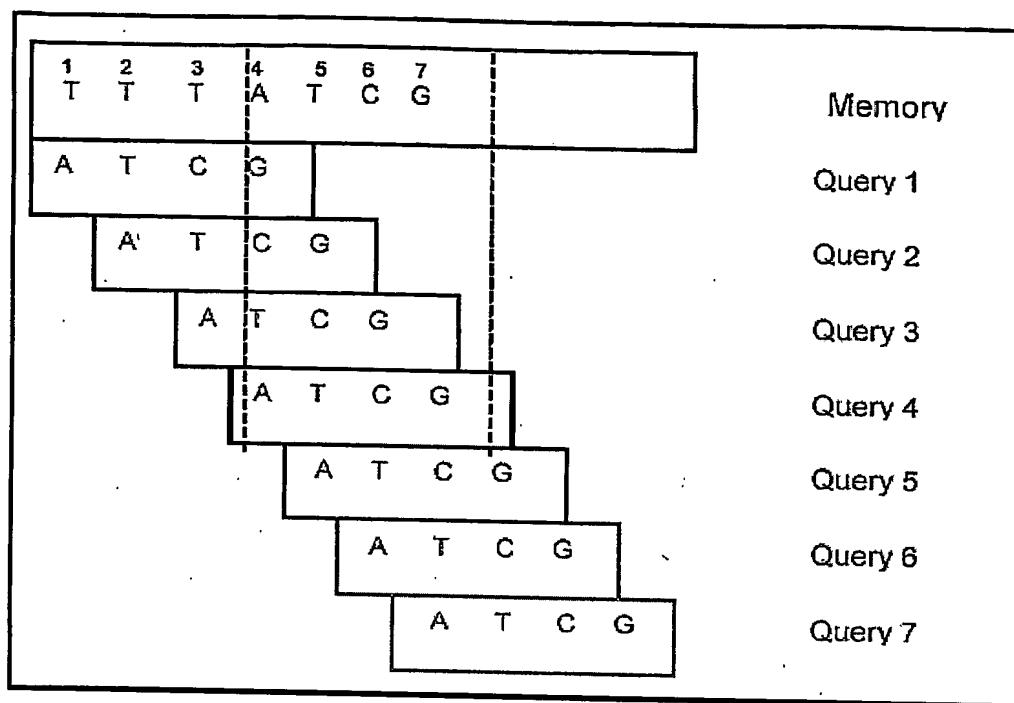
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Figure 15



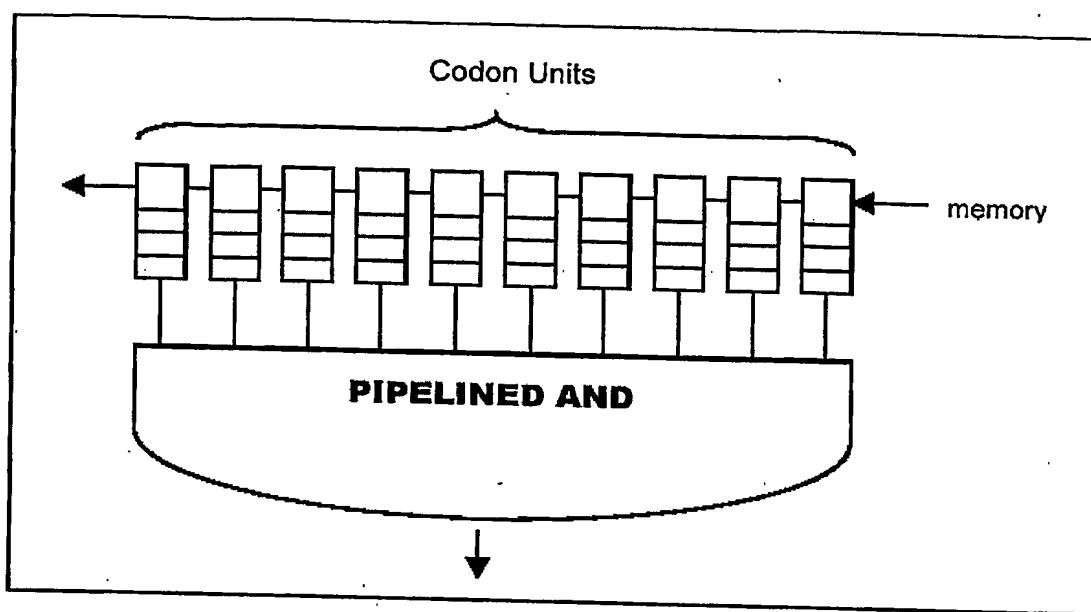
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Figure 16



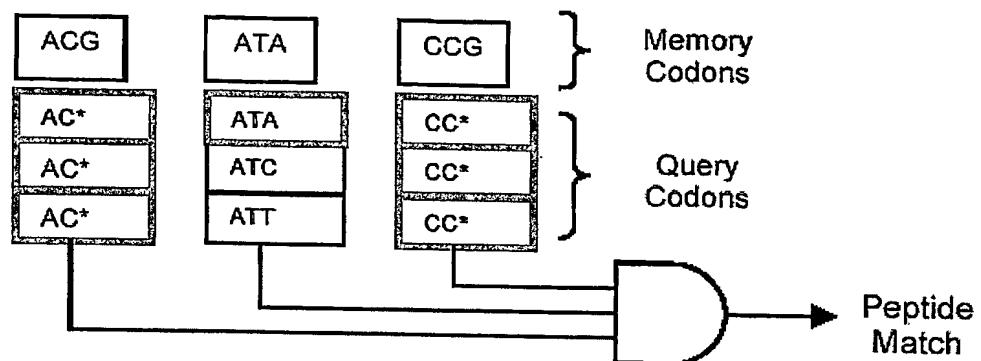
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Figure 17



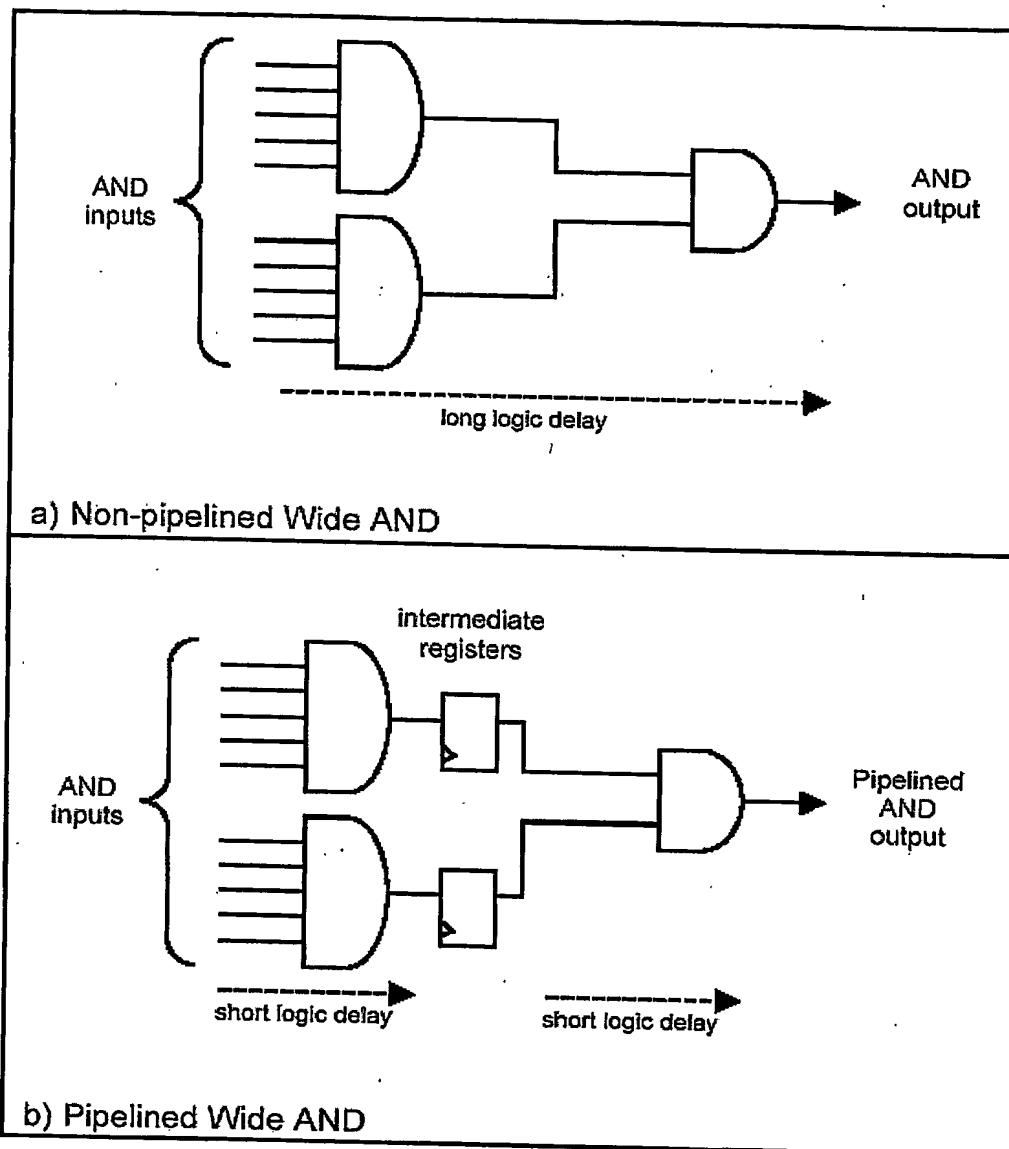
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Figure 18



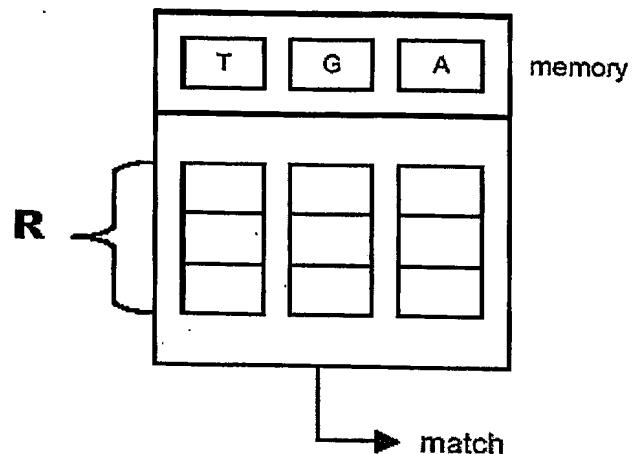
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Figure 19



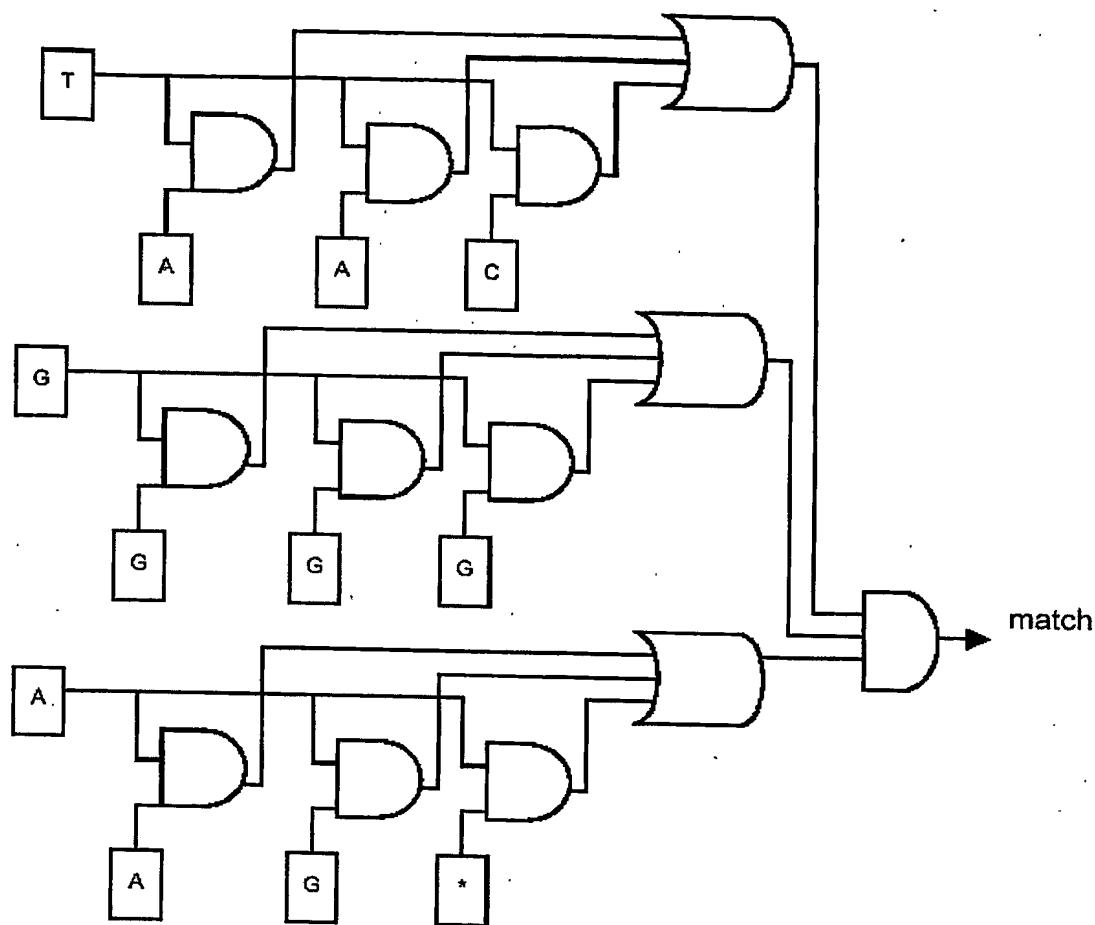
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Figure 20



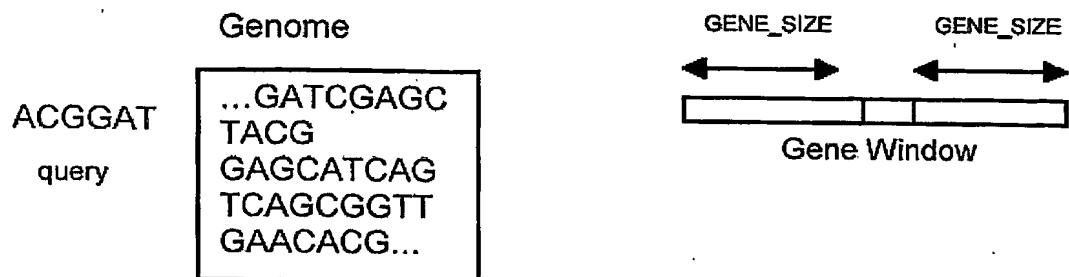
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Figure 21



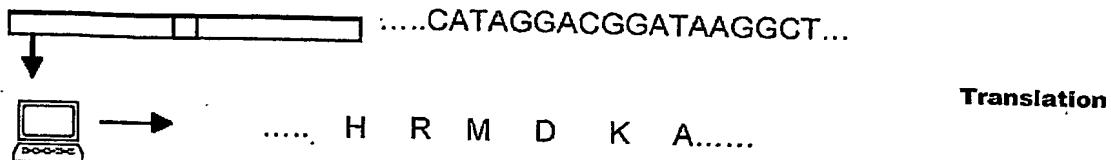
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Figure 22



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Figure 23



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Figure 24

.... H R M D K A.....

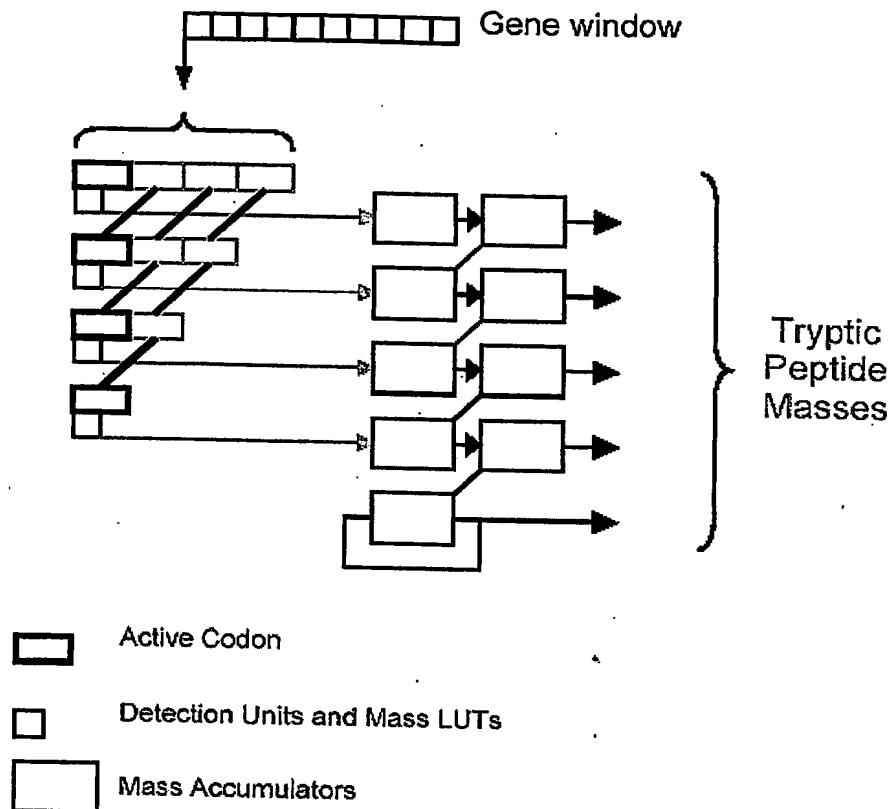
**Digestion**

...HR
MDK 225.32 Da
 127.11 Da

Calculation

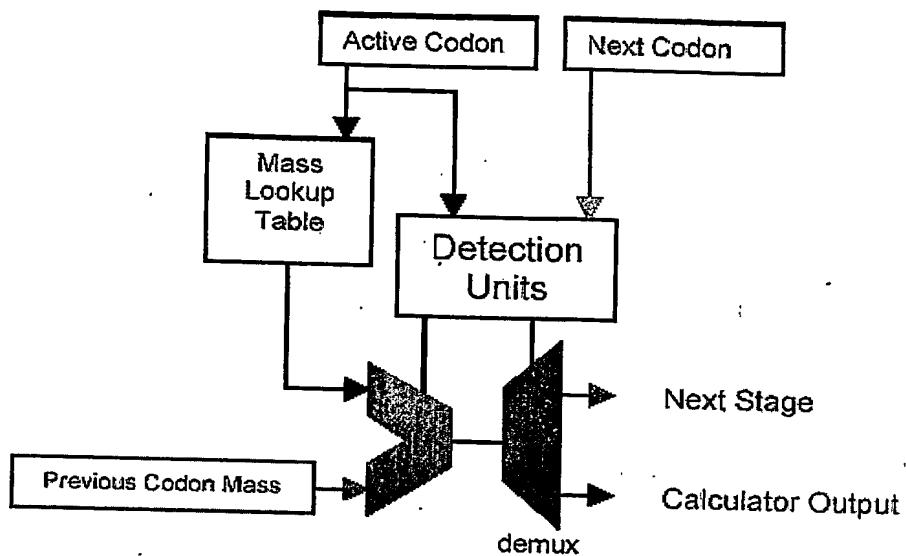
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Figure 25



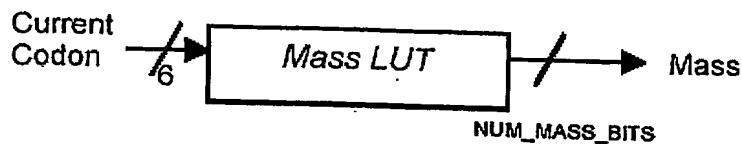
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Figure 26

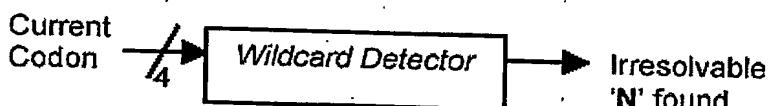
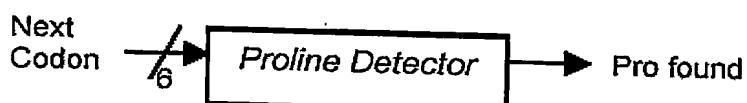
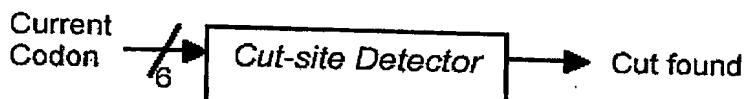


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Figure 27



a) Mass Lookup Table(LUT)



b) Detection Units

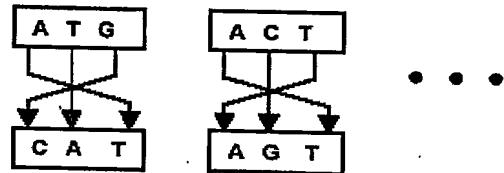
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Figure 28

ATG ACT CCA GAC	Original strand
GTC TGG AGT CAT	Complementary strand

a) DNA Strand and its Complement

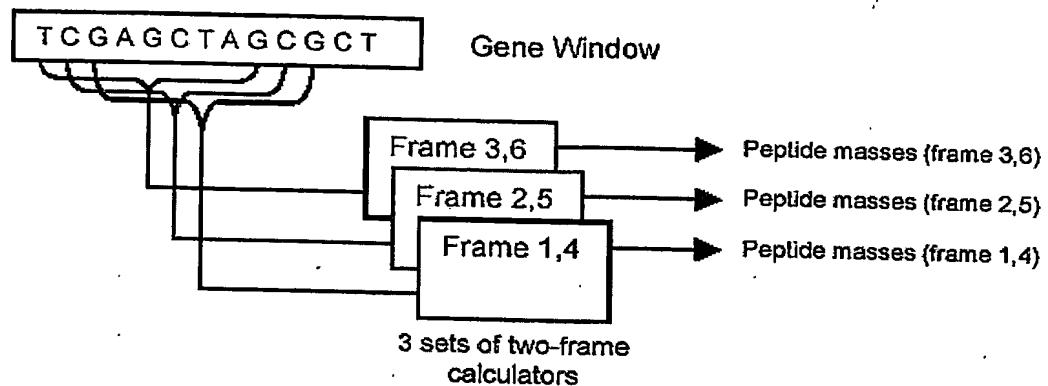
Original	Complement
ATG	CAT
ACT	AGT
CCA	TGG
GAC	GTC



a) Mapping codons to their complements

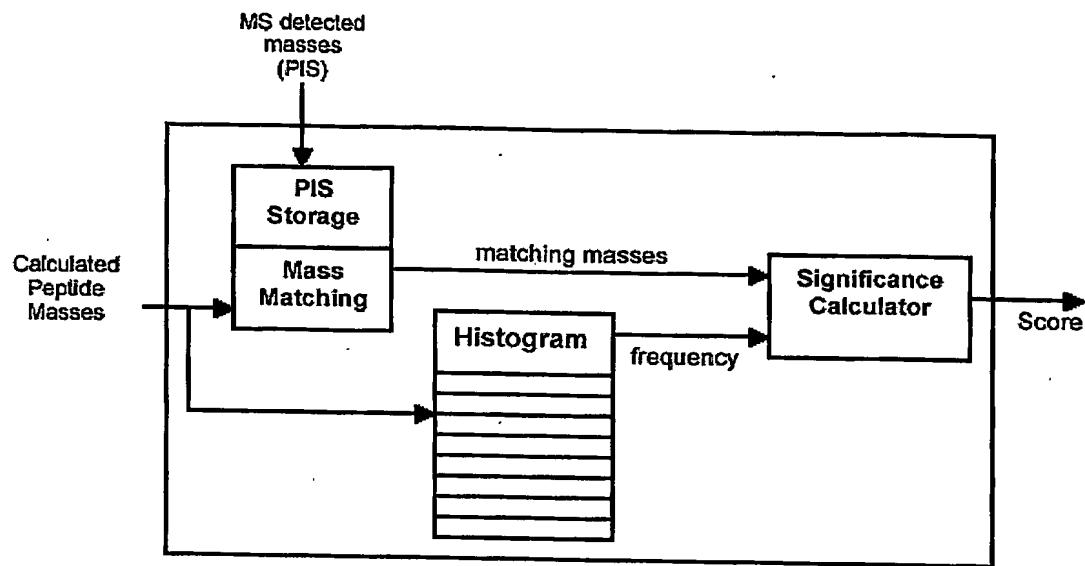
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Figure 29



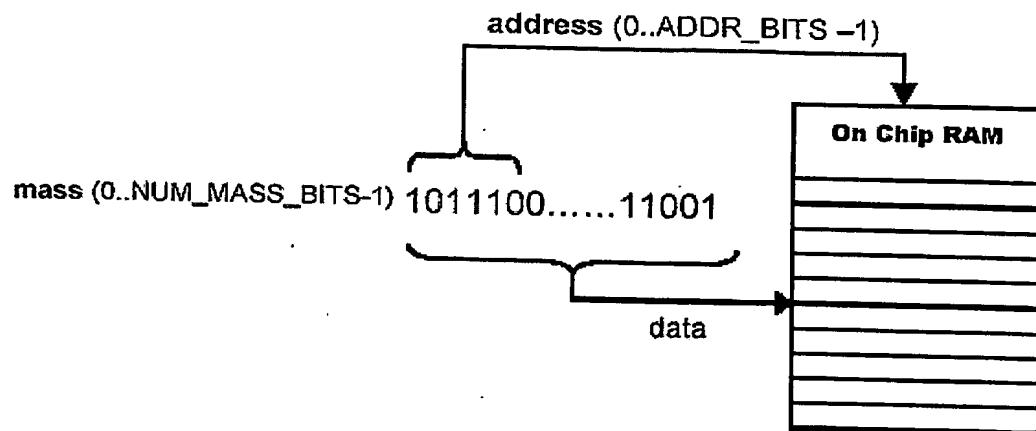
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Figure 30



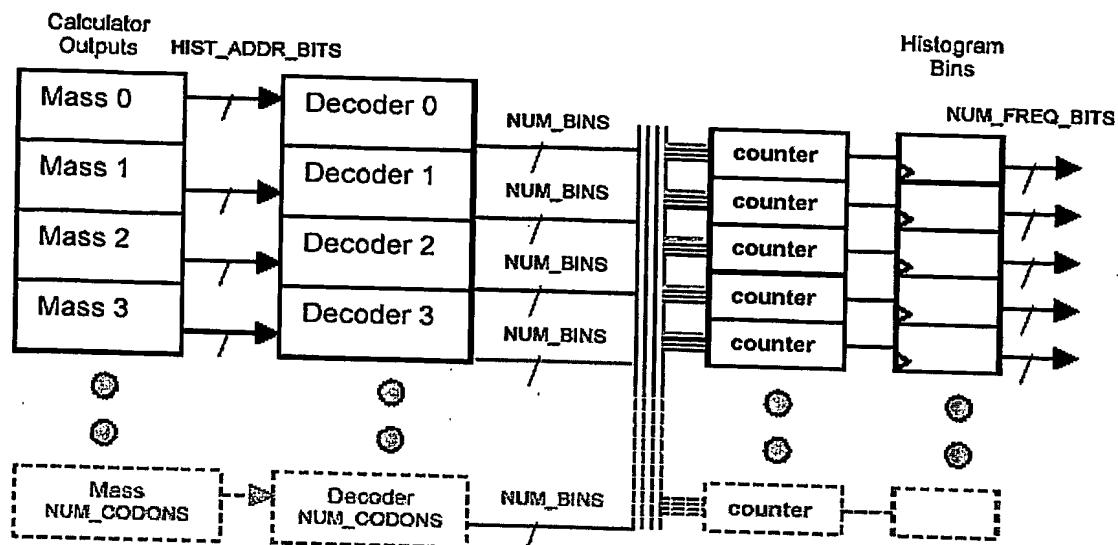
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Figure 31



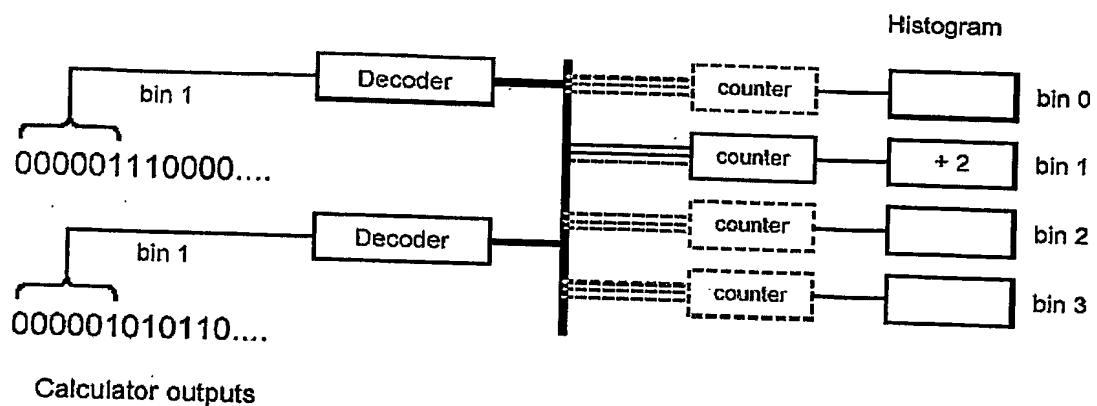
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Figure 32



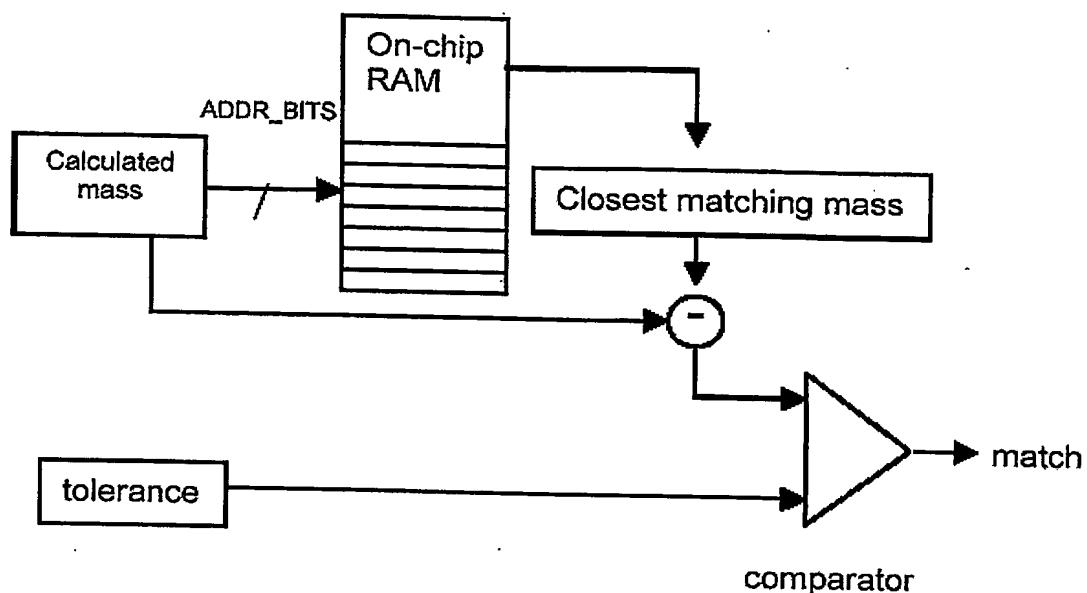
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Figure 33



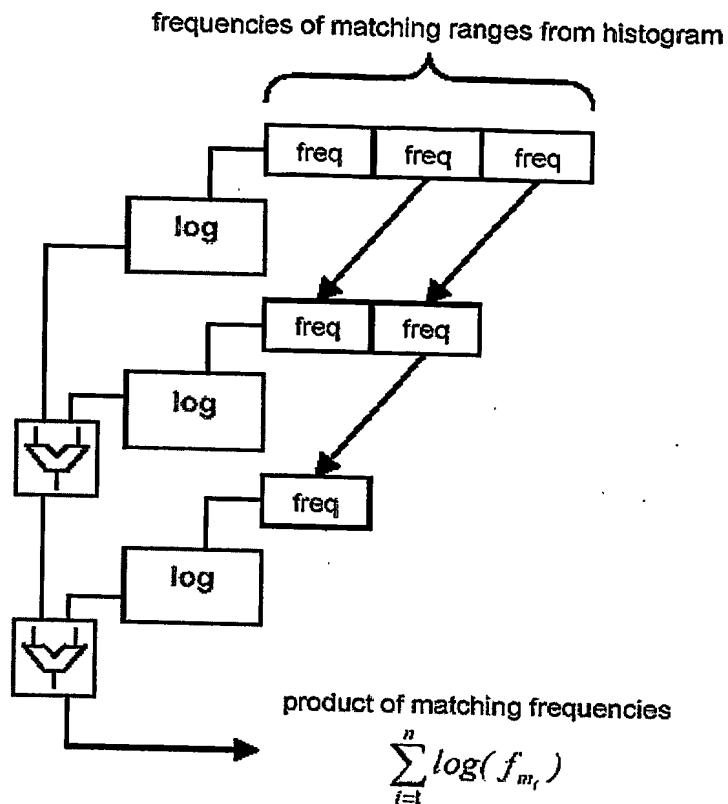
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Figure 34

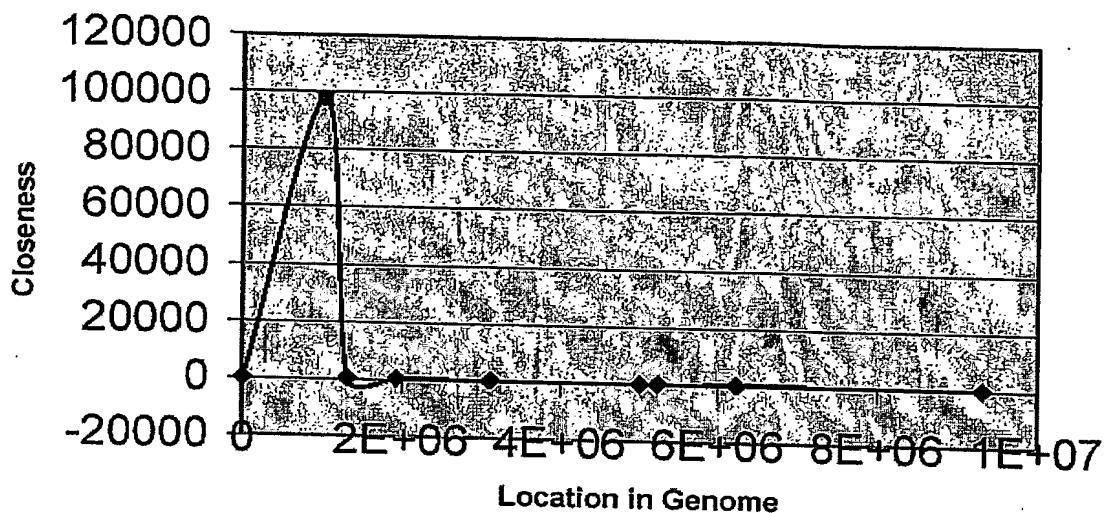


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Figure 35

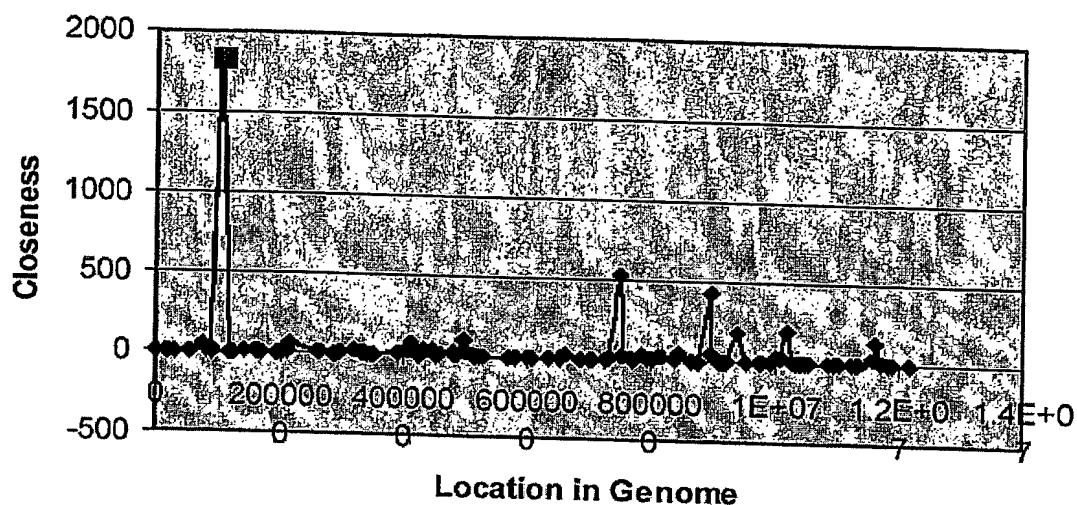


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Figure 36**Closest matches between "ilfak" and "eyvpr"**

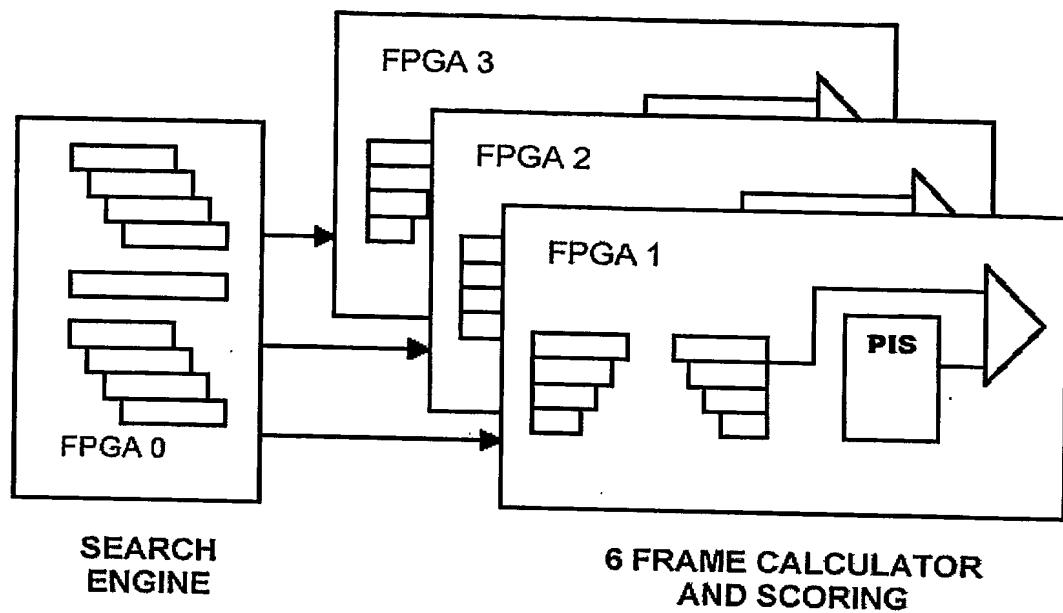
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Figure 37

Closest Matches Between "saav" and "eyvp"

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Figure 38



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